District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method
45-29949
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538
Address: PO BOX 4289, Farmington, NM 87499
Facility or well name: ALLISON UNIT 71
API Number: 30-045-29949 OCD Permit Number:
U/L or Qtr/Qtr K Section 24 Township 32 N Range 7 W County: San Juan
Center of Proposed Design: Latitude 36.963339 •N Longitude -107.521610 •W NAD: □1927 ⋈ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Metal
☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
4.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,

Four foot height, four strands of barbed wire evenly spaced between one and four feet

institution or church)

☐ Alternate. Please specify

6. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☐ Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
8. Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acce,	ptable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	
Conoval siting	
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	NA _
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)	
 Written confirmation or verification from the municipality; Written approval obtained from the municipality 	
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area. (Does not apply to below grade tanks)	☐ Yes ☐ No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain. (Does not apply to below grade tanks)	☐ Yes ☐ No
- FEMA map	
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	D Vac No
from the ordinary high-water mark).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole,	
or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
application.	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300fcct of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pit Non-low chloride drilling fluid									
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Permanent Pit or Multi-Well Fluid Management Pit									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No								
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	uments are NMAC 5.17.9 NMAC								
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC									
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	15.17.9 NMAC								
Previously Approved Design (attach copy of design) API Number: or Permit Number:	-								

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
### Attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems)	luid Management Pit
☐ In-place Burial ☐ On-site Trench Burial ☐ Alternative Closure Method	
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be	attacked to the
closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. It 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	
Within a 100-year floodplain.	Yes No
- FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannows Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address:	
18.	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 7/11/2	2016 the closure report.
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 7/11/2 Title: Compliance Officer OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.

22.
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Kelly G. Roberts Title: Regulatory Technician
Signature: Date: U/21/15
e-mail address: Kelly.Roberts@cop.com Telephone: (505) 326-9775

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Report

Lease Name: ALLISON UNIT 71

API No.: 30-045-29949

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

1. BR shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

5. BR will test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.0	250

6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

Notification of closure was not provided to the Aztec Division office between 72 hours and one week prior to closure.

9. The surface owner shall be notified of BR's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner was sent via certified mail. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. BR shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.

Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Included as an attachment)



ConocoPhillips Company RES/ PTRRC – San Juan Business Unit Juanita Farrell 3401 East 30th Street Farmington, NM 87402 Telephone: (505) 326-9597 Facsimile: (505) 324-6136

August 16, 2011

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

7110 6605 9590 0018 9443

Pamiellia L Yaw, Estate Attn: Melisa Vega 4923 E. Cherry Hills Dr. Chandler, AZ 85249

Re:

Allison Unit 71

SW Section 24, T32N, R7W San Juan County, New Mexico

Dear Landowner:

Pursuant to New Mexico Administrative Code § 19.15.17.13(F)(1)(b), an operator shall provide the surface owner of the operator's proposal to open and close a temporary pit on-site in compliance with the on-site closure methods specified in the same Subsection of the NMAC. In compliance with this requirement, please consider this letter as notification that a pit was constructed in 2009 on the above referenced well location. ConocoPhillips intends to close this temporary pit.

If you have any questions, please contact Maxwell Blair at (505) 320-2732.

Sincerely,

Juanita Farrell

Juanita Farrell Senior Associate, PTRRC District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	cation	n and Co	orrective A	ction				2
						OPERA'	ГOR		Initia	al Report	\boxtimes	Final Report
				il & Gas Compa		Contact Crystal Tafoya Telephone No.(505) 326-9837						
Address 3401 East 30 th St, Farmington, NM Facility Name: Allison Unit 71							No.(505) 326-98 ne: Gas Well	337				7 - 2 - 2 - 2 - 2
							oc. Gas fren					
Surface Owner Fee Mineral Owner						Fee		. A	PI No	.30-045-29	9949	(1
V			*: **	LOCA		N OF RE	LEASE					
Unit Letter K	Section 24	Township 32N		/South Line South	Feet from the 1750	East/West I West	Line	County San Juan	S:			
				Latitude <u>36</u>	.96310	Longitud	e <u>107.520817</u>					
				NAT	URE	OF RELI	EASE					
Type of Releas		ced Fluids				Volume of				Recovered		
Source of Rele	ase Below	y Grade Tai	nk	2		Date and H	Iour of Occurrence	e Date	e and l	Hour of Dis	covery	
Was Immediate	e Notice Gi		Yes 🗆	No 🛛 Not Re	eguired	If YES, To	Whom?					
By Whom?		Nancoo			-	Date and H	Iour					
Was a Waterco	urse Reach				-	If YES, Vo	olume Impacting t	he Watercour	rse.			
		П.	Yes 🛛 1	No		Ĩ,		(6)				
Describe Cause Below Grade	Tank Closu	re Activitie	S			u	s s	×	17		41374TC	6
The regulatory analytical resu	y standard lts for TPF	for closure I, BTEX an	at this sit d Chlorid	e was determined les were below th r action is requir	ıe regul	latory standa	rds set forth in t	he NMOCD				
regulations all of public health or should their open	operators are the enviror erations have nent. In add	e required to nment. The re failed to a lition, NMO	report an acceptanc dequately CD accept	is true and completed of file certain received a C-141 repositive stigate and retained of a C-141 received and received a C-141 received a C-1	elease no rt by the emediate	otifications ar NMOCD ma contamination	nd perform correct arked as "Final Re on that pose a thre	tive actions for eport" does not eat to ground	or rele ot relie water,	ases which eve the oper surface wa	may en ator of ter, hur	danger liability nan health
				SS-OHUN			OIL CONS	SERVATI	ON :	DIVISIO	N	
Signature;	Total	T. Tafe	rja			Approved by	Environmental Sp	necialist				
Printed Name:	Crystal Ta	ifoya				approved by .		, columet.				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Title: Field En	vironment	al Specialist	t		1	Approval Date	e;	Expira	tion I	Pate:		
E-mail Address	: crystal.taf	oya@conoco	ophillips.c	om		Conditions of Approval:		Attached				
Date: 12/11/20 Attach Additio			(505) 326 rv	-9837								

AES

Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

Durango, Colorado

970-403-3274

San Juan Business Unit

December 7, 2012

Office 214-05

Crystal Tafoya

ConocoPhillips

5525 Hwy 64

RE:

Farmington, New Mexico 87401

Below Grade Tank Closure and Release Report

Allison #71

San Juan County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure and release confirmation at ConocoPhillips (CoP) Allison #71, located in San Juan County, New Mexico. Tank removal was completed by CoP contractors prior to AES arrival on site.

1.0 Site Information

1.1 Location

Site Name - Allison #71

Legal Description - NE¼ SW¼, Section 24, T32N, R7W, San Juan County, New Mexico Well Latitude/Longitude - N36.96314 and W107.52142, respectively BGT Latitude/Longitude - N36.96334 and W107.52162, respectively Land Jurisdiction - Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, September 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated August 2011 for the Allison #71 well reported the depth to groundwater as greater than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery

Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs, and the nearest surface waters were an ephemeral drainage located approximately 800 feet southwest and a stock pond located approximately 1,200 feet northwest of the BGT location. Based on this information, the location was assessed a ranking score of 10.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on September 21, 2012, and on September 24, 2012, Deborah Watson and Corwin Lameman of AES completed an assessment at the location.

AES personnel collected five soil samples (S-1 through S-5) from the below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, and one sample was collected from the center of the BGT footprint. A 5-point composite sample (SC-1) of the BGT footprint was collected for confirmation laboratory analysis.

2.0 Soil Sampling

On September 24, 2012, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples S-1 through S-5 were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Soil sample SC-1 was field screened for chlorides and submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck).

Crystal Tafoya Allison #71 BGT Closure Report December 7, 2012 Page 3 of 5

A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.

2.1.3 Chlorides

Soil sample SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The composite soil sample SC-1 collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil sample SC-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental
 Protection Agency (USEPA) Method 8021B;
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening for VOCs via OVM showed readings ranging from 0.5 ppm in SC-1 up to 1.7 ppm in S-4. Field TPH concentrations ranged from 38.1 mg/kg in S-4 up to 51.4 mg/kg in S-1. The field chloride concentration in SC-1 was 120 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Allison #71 BGT Closure. September 2012

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L	evel (NMAC 19.	15.17.13E)		100	250
S-1	09/24/12	0.5	1.0	51.4	NA
S-2	09/24/12	0.5	0.9	43.4	NA
S-3	09/24/12	0.5	0.6	48.8	NA
S-4	09/24/12	0.5	1.7	38.1	NA
S-5	09/24/12	0.5	1.5	50.1	NA
SC-1	09/24/12	0.5	0.5	NA	120

NA - not analyzed

Laboratory analytical results showed that the benzene and total BTEX concentrations in SC-1 were below the laboratory detection limits of 0.050 mg/kg and 0.25 mg/kg, respectively. The laboratory chloride concentration was 98 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results Allison #71 BGT Closure, September 2012

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
NMOCD Action	Level (NMAC 19.15	.17.13E)	0.2	50	250
SC-1	09/24/12	0.5	<0.050	<0.25	98

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Field TPH concentrations were below the NMOCD action level of 100 mg/kg in each sample (S-1 through S-5), and the chloride concentration in SC-1 was below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, BTEX, TPH, and chlorides, no further work is recommended.

Crystal Tafoya Allison #71 BGT Closure Report December 7, 2012 Page 5 of 5

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson or Elizabeth McNally at (505) 564-2281.

Sincerely,

Landrea Cupps

Environmental Scientist

Elizabeth V McNolly

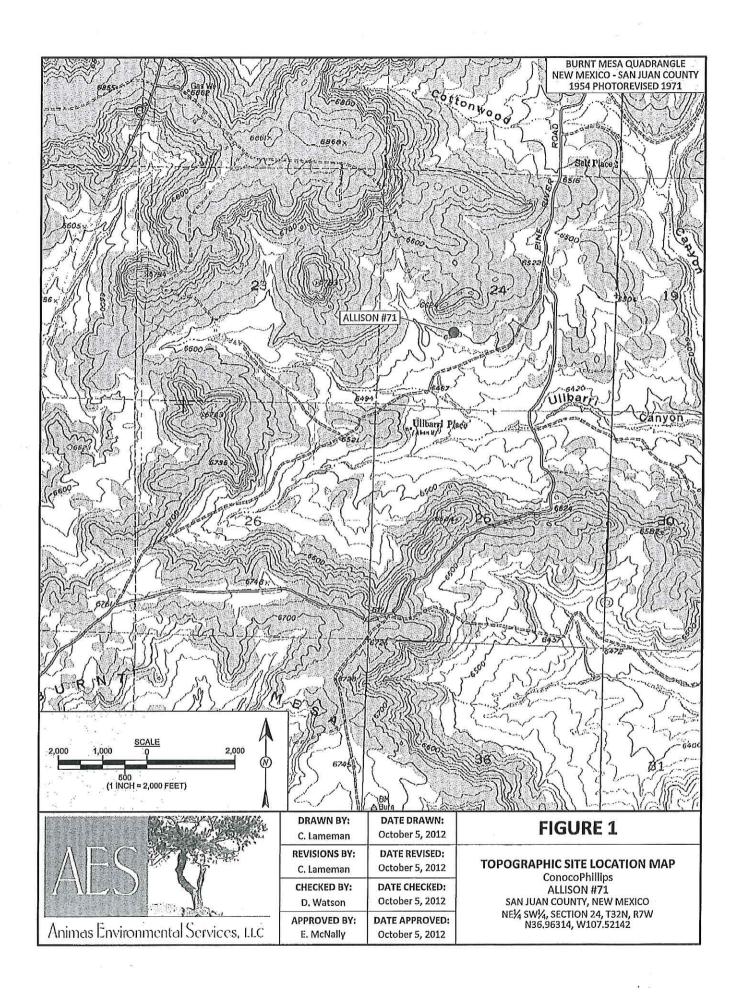
Landre R. Ciggs

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, September 2012 AES Field Screening Report 092412 Hall Analytical Report 1209A82

C:\Dropbox\2012 December 2012 (Former Trial File)\ConocoPhillips\Allison #71\Allison #71 BGT Closure Report 120712.docx



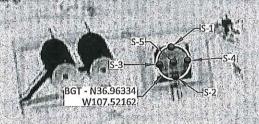


SAMPLE LOCATIONS

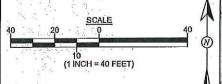
14.11.77	Fleld S	creenin	ig Results	
Sample Date ID Date NMOCD ACTION LEVEL		· DOTE FID , ,,		Chlorides (mg/kg)
		1 90	100	250
S-1	9/24/12	1.0	51.4	NA
S-2	9/24/12	0,9	43,4	NA . :
S-3	9/24/12	0.6	48.8	NA
S-4	9/24/12	1.7	38.1	NA :
S-5	9/24/12	1.5	50.1	NA
SC-1	9/24/12	0.5	NA	120

		Laborato	ry Analytic	al Results		
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		D ACTION LEVEL 0.2	50	100		250
SC-1	9/24/12	<0.050	<0.25	NA .	NA	98
SAMPLE WAS	ANALYZED	PER EPA MI	ETHOD 802	1B AND 300	.0.:	

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED







AERI	AL SOURCE: © 2012 PICT	TOMETRY INTERNATIONAL COL	P. ONLINE, AERIAL TAKEN: APRIL 2, 2009
i.	DRAWN BY: C, Lameman	DATE DRAWN: October 5, 2012	FIGURE 2
	REVISIONS BY: C. Lameman	DATE REVISED: October 5, 2012	AERIAL SITE MA
	CHECKED BY: D. Watson	DATE CHECKED: October 5, 2012	SEPTEMBER 20 ConocoPhillips ALLISON #71
	APPROVED BY:	DATE APPROVED:	SAN JUAN COUNTY, NEW NE' SW', SECTION 24, T

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE

SEPTEMBER 2012

ConocoPhillips
ALLISON #71

SAN JUAN COUNTY, NEW MEXICO
NE¼ SW¼, SECTION 24, T32N, R7W
N36.96314, W107.52142



AES Field Screening Report

Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

Durango, Colorado 970-403-5274

Client: ConocoPhillips

Project Location: Allison #71

Date: 9/24/2012

Matrix: Soil

SC-1	S-5	S-4	S-3	S-2	S-1	Sample ID		
						e ID	_	
9/24/2012	9/24/2012	9/24/2012	9/24/2012	9/24/2012	9/24/2012	Date	Collection	
13:10	13:05	13:00	12:55	12:50	12:45	Collection	Sample	Time of
Composite	Center	East	West	South	North	Location	Sample	
0.5	1.5	1.7	0.6	0.9	1.0	(ppm)	MVO	
120	NA	NA	NA	NA	NA	(mg/kg)	Chloride	Field
	13:43	13:41	13:38	13:35	13:33	Time	Analysis	Field TPH
Not An	50.1	38.1	48.8	43.4	51.4	(mg/kg)	Field TPH*	
Not Analyzed for Field TPH	20.0	20.0	20.0	20.0	20.0	(mg/kg)	TPH PQL	
'TPH	Ь	ъ	1	Н	Д	PF		
	DAW	DAW	DAW	DAW	DAW	Initials	Analysts	TPH

PQL **Practical Quantitation Limit**

Not Detected at the Reporting Limit

무집 **Dilution Factor**

Not Analyzed

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Julynah With



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 01, 2012

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: COP Allison #71

OrderNo.: 1209A82

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/25/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1209A82

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1 COP Allison #71 Collection Date: 9/24/2012 1:10:00 PM

Project: Lab ID: 1209A82-001

Received Date: 9/25/2012 10:00:00 AM Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES	0.200		25		Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	9/25/2012 12:19:52 PM
Toluene	ND	0.050	mg/Kg	1	9/25/2012 12:19:52 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/25/2012 12:19:52 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/25/2012 12:19:52 PM
Surr: 4-Bromofluorobenzene	98.0	80-120	%REC	1	9/25/2012 12:19:52 PM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	98	30	mg/Kg	20	9/25/2012 12:15:18 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits Page 1 of 4

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1209A82

01-Oct-12

Client:

Animas Environmental Services

Project:

COP Allison #71

Sample ID 1209A85-001BMS

SampType: MS

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

LowLimit

64.4

64.4

Client ID: **BatchQC** Batch ID: 3913

RunNo: 5775

Prep Date: 9/25/2012 Analysis Date: 9/25/2012 PQL

30

SeqNo: 165984

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val 19.09

LowLimit %REC

HighLimit %RPD

Chloride

ND

15.00

64.4 67.6

117

RPDLimit

Qual

Sample ID 1209A85-001BMSD

BatchQC

SampType: MSD Batch ID: 3913

%REC

37.2

RunNo: 5775

Prep Date: 9/25/2012 Analysis Date: 9/25/2012

SeqNo: 165985

19.09

Units: mg/Kg

Analyte Chloride

Client ID:

Result PQL

ND

SPK value SPK Ref Val 15.00

HighLimit

RPDLimit 20

Qual S

Sample ID 1209615-050AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

Client ID:

BatchQC

Sample ID 1209615-050AMSD

Batch ID: 3913

RunNo: 5775

Prep Date:

9/25/2012

Analysis Date: 9/25/2012

30

SeqNo: 165987

Units: mg/Kg-dry

117

RPDLimit

Analyte

PQL Result 79 9.2 SPK value SPK Ref Val 67.90 18.36

%REC LowLimit 60.6

HighLimit %RPD

%RPD

0

Qual s

Qual

Chloride

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC 9/25/2012 SampType: MSD Batch ID: 3913

RunNo: 5775

Prep Date:

Analysis Date: 9/25/2012

81

Result

SeqNo: 165988

Units: mg/Kg-dry

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Chloride

9.2

18.36

67.90

71.7

64.4

117

2.54

20

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- Sample pH greater than 2

Analyte detected in the associated Method Blank В

RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R

Page 2 of 4

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1209A82 01-Oct-12

Client:

Animas Environmental Services

Project:

COP Allison #71

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

PBS

RunNo: 5753

Batch ID: R5753

Prep Date:

Analysis Date: 9/25/2012 PQL

SeqNo: 165877

Units: %REC

HighLimit

Analyte

Result

SPK value SPK Ref Val %REC

LowLimit

%RPD

116

RPDLimit

Surr: BFB

980

1000

98.3

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

Sample ID 2.5UG GRO LCSB LCSS

SampType: LCS Batch ID: R5753

RunNo: 5753

84

Prep Date:

Analysis Date: 9/25/2012

1000

SeqNo: 165878

105

Units: %REC

%RPD

Analyte

Result

SPK value SPK Ref Val %REC

LowLimit

HighLimit

RPDLimit

Qual

Sun: BFB

Sample ID 1209A84-001AMS

SampType: MS

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

BatchQC

Batch ID: R5753

RunNo: 5753

Units: %REC

116

Prep Date:

Analysis Date: 9/25/2012

SeqNo: 165880

Analyte

Result

SPK value SPK Ref Val %REC

LowLimit 105

HighLimit 116 %RPD **RPDLImit** Qual

Surr: BFB

710

678.9

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

Sample ID 1209A84-001AMSD **BatchQC**

SampType: MSD Batch ID: R5753

RunNo: 5753

Prep Date:

Analysis Date: 9/25/2012

SeqNo: 165881

Units: %REC

Qual

Analyte Surr: BFB Result 730 SPK value SPK Ref Val 678.9

%REC 108 LowLimit 84 HighLimit 116 %RPD 0 **RPDLimit**

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit ND

Page 3 of 4

Sample pH greater than 2

RPD outside accepted recovery limits R

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209A82

01-Oct-12

Client:

Animas Environmental Services

Project:

COP Allison #71

Sample ID 5ML RB	SampType: MBLK Batch ID: R5753			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS				F	RunNo: 5753					
Prep Date:	Analysis I	Date: 9/	25/2012	8	SeqNo: 1	65902	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050	304110,							
Toluene	ND	0.050								
Ethylbenzene	ND	0.050					58			
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	80	120			
Sample ID 100NG BTEX LCS	Samp	Гуре: LC	s	Tes	tCode; E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: R5	753	F	tunNo: 5	753				
Prep Date:	Analysis E	Date: 9/	25/2012	S	SeqNo: 1	65903	Units: mg/k	(g		
			4 20 2	onka sv. i				W DDD	DDDI I!!	Ounl

Sample ID 100NG BTEX LCS Samp Type: LCS					restcode, EPA Method 60215. Volatiles						
Client ID: LCSS	3	Batch	ID: R5	753	F	RunNo: 5	753				
Prep Date:		Analysis D	ate: 9/	25/2012	8	SeqNo: 1	65903	Units: mg/F	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.050	1.000	0	101	76.3	117			
Toluene		1.0	0.050	1.000	0	103	80	120			
Ethylbenzene		1.0	0.050	1.000	0	103	77	116			
Xylenes, Total		3.1	0.10	3.000	0	103	76.7	117			
Surr: 4-Bromofluoro	benzene	1.0		1.000	df.	103	80	120			

Sample ID 1209A82-001AN	TestCode: EPA Method 8021B: Volatiles									
Client ID: SC-1	Batc	Batch ID: R5753			RunNo: 5753					
Prep Date:	Analysis [Date: 9/	25/2012	8	SeqNo: 1	65905	Units: mg/h	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.29	0.050	0.7159	0	40.9	67.2	113			S
Toluene	0.30	0.050	0.7159	0	42.4	62.1	116			S
Ethylbenzene	0.31	0.050	0.7159	0	43.3	67.9	127			S
Xylenes, Total	0.93	0.10	2.148	0	43.3	60.6	134			S
Surr; 4-Bromofluorobenzene	0.72		0.7159		101	80	120			

Sample ID 1209A82-001AN	ISD SampT	ype: MS	BD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: SC-1 Batch ID: R5753				RunNo: 5753						
Prep Date:	Analysis D	ate: 9/	25/2012	8	SeqNo: 1	65906	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.050	0.7159	0	97.5	67.2	113	81.7	14.3	R
Toluene	0.71	0.050	0.7159	0	99.1	62.1	116	80.1	15.9	R
Ethylbenzene	0.71	0.050	0.7159	0	99.5	67.9	127	78.7	14.4	R
Xylenes, Total	2.1	0.10	2.148	0	99.9	60.6	134	79.0	12.6	R
Surr: 4-Bromofluorobenzene	0.75		0.7159		105	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

Sample Log-In Check List

Client Name: Animas Environmenta	haladin	Work Order Number: 12	209A82	
Received by/date:	01/85/12			
Logged By: Ashley Gattegos	9/25/2012 10:00:00	AM MA		
Completed By: Ashley Gallegos	9/26/2012 10:17:20	AM 🖈	•	
Reviewed By:				
Chain of Custody				
1. Were seals intact?	E S	Yes 🗌 No 🗓	Not Present	
2. Is Chain of Custody complete?		Yes 🗹 No 🗌	Not Present 🔲	
3. How was the sample delivered?		<u>Courier</u>		2 %
<u>Log In</u>	2			
4. Coolers are present? (see 19. for cool	oler specific information)	Yes 🗹 No 🗀	na 🗆	
5. Was an attempt made to cool the sa	mples?	Yes 🗹 No 🗌	na 🗆	
6. Were all samples received at a temp	erature of >0° C to 6.0°C	Yes 🗹 No 🗌	NA 🗆	
7. Sample(s) in proper container(s)?		Yes 🗹 No 🗆		
8. Sufficient sample volume for indicate	d test(s)?	Yes 🗹 No 🗌		
9. Are samples (except VOA and ONG)	properly preserved?	Yes 🗹 No 🗌		
10. Was preservative added to bottles?		Yes 🗌 No 🗹	NA 🗆	
11. VOA vials have zero headspace?		Yes 🗌 No 🖸 No	O VOA Viats 🗹	
12. Were any sample containers received	i broken?	Yes 🗆 No 🗹		
13. Does paperwork match bottle labels? (Note discrepancies on chain of custo		Yes 🗹 No 🗌	# of preserved bottles checked for pH:	
14. Are matrices correctly identified on C		Yes 🗹 No 🗌	1 2 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	or >12 unless noted)
15. Is it clear what analyses were reques		Yes 🗹 No 🗆	Adjusted?	
16. Were all holding times able to be met (If no, notify customer for authorizatio		Yes ☑ No 🗌	Checked by	
Special Handling (if applicable)				, , , , , , , , , , , , , , , , , , ,
17. Was client notified of all discrepancie	s with this order?	Yes No C	NA 🗹	
. Person Notified:	Date:			
By Whom:	Via:	eMail Phone	Fax In Person	_
Regarding:				
Client Instructions:				11 ²
18. Additional remarks:		ets.		
19. Cooler Information				
Cooler No Temp ºC Condition		Seal Date Signed B	У	
1 1.0 Good	Not Present '	L		

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NIM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TPH Method 8015B (Gas/Dlesel) TPH (Method 418.1) EDB (Method 504.1) 8310 (PNA or PAH) RCRA 8 Metals Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8250 (YOA) 8250 (Semi-VOA) 3200 (Ch lovides)	Conoco Pullips Supervisor: famy Dee user 10: K4 ITW orderedby: Bruce Yazare
Tum-Around Time: Standard K Rush Salve day Project Name: (b P A i son # 7 Project #:	Waffive See HE TIPH (Gas only)	by. Les Wells. by. Les Wells. by. Characacdical laboratories.
Chain-of-Custody Record Client Animas Environmental Services I.C. Mailing Address: 624 E Comanche Farmington N.M. 87401 Phone # 505 564 2281	Full Validation)	9-24-12 [315 So SC- Print) Received Date: Time: Relinquished by: Received Received Received I Time: Relinquished by: Received Received Received I Time: Relinquished by: R

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: COP Allison #71

1209A82-001

Lab ID:

Client Sample ID: SC-1

Collection Date: 9/24/2012 1:10:00 PM

Matrix: MEOH (SOIL) Received Date: 9/25/2012 10:00:00 AM

Analyses		Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLA	TILES			Aur-	52°	Analyst: NSB
Benzene		ND	0.050	mg/Kg	1	9/25/2012 12:19:52 PM
Toluene		. ND	0.050	mg/Kg	1	9/25/2012 12:19:52 PM
Ethylbenzene		ND	0.050	mg/Kg	1	9/25/2012 12:19:52 PM
Xylenes, Total		ND	0.10	mg/Kg	1	9/25/2012 12:19:52 PM
Surr: 4-Bromofluorobenzene		98.0	80-120	%REC	1	9/25/2012 12:19:52 PM

Chloride = 98 mg/kg

Qualifiers:

Value exceeds Maximum Contaminant Level.

E

RL Reporting Detection Limit

Analyte detected in the associated Method Blank

r pre paration or analysis exceeded

accepted r vovery limits

Spike Recovery outside accepted recovery limits 1 of 0



